DIMERIZATION OF LOWER OLEFIN AND PRODUCTION OF ALCOHOL USING THE DIMER

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Abstract of **JP6228016**

PURPOSE:To obtain a lower olefin mixture having low branching degree in high activity at a low cost by dimerizing a lower olefin using a catalyst having high product selectivity, activity and stability. CONSTITUTION:A lower olefin having low branching degree (e.g. n-octene) is produced in high activity by dimerizing a lower olefin (e.g. n-butene) using a catalyst containing a nickel compound (preferably a 1-18C nickel carboxylic acid salt or a bisacetylacetonate-nickel complex compound) and a phosphite compound of formula [R<1> to R<+> are (substituted) phenyl; at least two of R<1> to R<4> have hydrocarbon group at ortho-site as a substituent; A is bivalent aliphatic, alicyclic or aromatic hydrocarbon group which may have substituent; n is 0 or 1]. An alcohol produced by the hydroformylation reaction and the hydrogenation reaction of the olefin produced by the above reaction is suitable for the production of a plasticizer having improved heat-resistance and low- temperature flexibility.